Ontario

Ministry of
Northern Development
and Mines

Sean Conway, Minister of Mines

ONTARIO GEOLOGICAL SURVEY

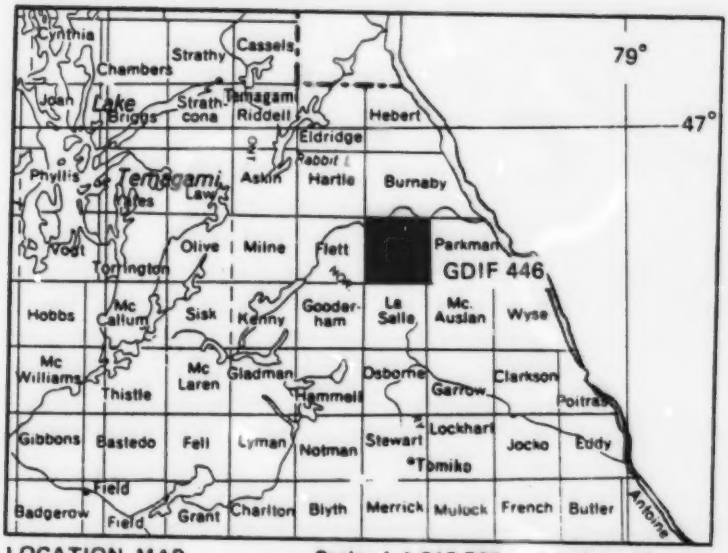
GEOLOGICAL DATA INVENTORY FOLIO

GDIF 446

ANGUS TOWNSHIP

DISTRICT OF NIPISSING

Compiled by the Staff of
the Resident Geologist's Office
Cobalt



LOCATION MAP

Scale: 1:1 013 760 or 1 inch to 16 miles

NTS Number 31L/14

Mining Claim Map Number M-403

The project is part of the Canada-Ontario Mineral Development Agreement (COMDA).

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey
1988: Angus Township, District of Nipissing, Ontario Geological Survey Geological Data Inventory Folio 446 , compiled by the staff of the Resident Geologist's Office, Cobalt; 19 pages and 2 Maps.

Original Compilation by: Patricia Anderson, September 22, 1987

Date	Page Revised	Revised by

Date	Page Revised	Revised by

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ACCOMPANYING MAPS

Property Location Map - 1 Map
Exploration Data Map - 1 Map
Map Scale 1: 31 680 or 1 inch to ½ mile

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
			LENGTH		
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
			AREA		
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
			VOLUME		
1 cm^3	0.061 02	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
			CAPACITY		
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L.	0.219 969	gallons	1 gallon	**4.546 090**	L
			MASS		
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	**28.349 523**	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	**31.103 476 8**	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	**0.453 592 37**	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	**907.184 74**	kg
1 t	1.102 311	tons (short)	1 ton (short)	**0.907 184 74**	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	**1016.046 908 8**	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	**1.016 046 908 8**	t
			CONCENTRATION		
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20.0	pennyweights/ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	Yes	D.P.A.
2	Assessment Files Research Office, Toronto	Yes	D.P.A.
3	ODM General Index; 9 Volumes	Yes	D.P.A.
4	Catalogue of Airborne Geophysical Surveys (ODM)	Yes	D.P.A.
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	Yes	D.P.A.
6	ODM Industrial Mineral Reports	No	D.P.A.
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	No	D.P.A.
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	No	D.P.A.
9	Newspaper Clippings File	No	D.P.A.
10	GSC Index to Publications	Yes	D.P.A.
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	Yes	D.P.A.
12	OGS Index Maps	No	D.P.A.
13	Source Mineral Deposit Records (O.G.S.)	Yes	D.P.A.
14	Author - Subject Articles File	No	D.P.A.
15	Miscellaneous Papers: ODM & OGS	Yes	D.P.A.
16	ODM Geological Circulars: OGS Study Series	No	D.P.A.
17	ODM Preliminary Reports: ODM Bulletins	No	D.P.A.
18	ODM -- OGS Open File Reports	Yes	D.P.A.
19	OGS Northern Ontario Engineering Geology Terrain Studies	Yes	D.P.A.
20	OGS Aggregate Resources Inventory Papers	N.A.	D.P.A.
21	OGS Mineral Potential Maps	Yes	D.P.A.
22	Theses on File, Cobalt	No	D.P.A.
23	Aerial Photographs on File, Toronto	Yes	D.P.A.

METALS AND MINERALS REFERENCES LIST

- Δ anh. . . . . .Anhydrite
- Δ ank. . . . . .Ankerite
- Δ anna . . . . . Annabergite
- Δ ap. . . . . .Apatite
- Δ arg . . . . . Argentite
- Δ As . . . . . .Arsenic
- Δ asp . . . . . .Arsenopyrite
- Δ asb . . . . . .Asbestos
- Δ ba. . . . . .Barite
- Δ be. . . . . .Beryl
- Δ Bi. . . . . .Bismuth
- Δ bn . . . . . .Bornite
- Δ bran . . . . . .Brannerite
- Δ bruc . . . . . .Brucite
- Δ Cd . . . . . Cadmium
- Δ calc. . . . . .Calcite
- Δ carb . . . . . .Carbonate
- Δ cel . . . . . .Celestite
- Δ cc. . . . . .Chalcocite
- Δ cp. . . . . .Chalcopyrite
- Δ ch. . . . . .Chert
- Δ clay . . . . . .Clay
- Δ Co . . . . . Cobalt
- Δ cob. . . . . Cobaltite
- Δ cb. . . . . .Columbite
- Δ Cu . . . . . .Copper
- Δ cor . . . . . Corundum
- Δ dol . . . . . Dolomite
- Δ ep. . . . . Epidote
- Δ ery . . . . . Erythrite
- Δ fel . . . . . .Feldspar
- Δ fl . . . . . .Fluorite (flurospar)
- Δ fu. . . . . .Fuchsite
- Δ gn. . . . . .Galena
- Δ gt. . . . . .Garnet
- Δ goe. . . . . .Goethite
- Δ Au . . . . . Gold
- Δ gf. . . . . .Graphite
- Δ gl . . . . . Gravel
- Δ gyp. . . . . .Gypsum
- Δ hem . . . . . Hematite
- Δ il . . . . . .Ilmenite
- ▲ Fe . . . . . .Iron
- Δ IF. . . . . Iron Formation
- Δ jas . . . . . Jasper
- Δ kaol . . . . . .Kaolinite (kaolin)
- Δ ky . . . . . Kyanite
- Δ Pb . . . . . Lead
- Δ lim . . . . . Limonite
- Δ Li. . . . . Lithium
- Δ mgst . . . . . .Magnesite
- Δ mag . . . . . .Magnetite
- Δ mc . . . . . Malachite
- Δ Mn . . . . . Manganese
- Δ mb. . . . . .Marble
- Δ mar. . . . . Marcasite
- Δ ma . . . . . .Marl
- Δ mi . . . . . Mica
- Δ ml . . . . . .Millerite
- Δ mo . . . . . Molybdenite
- Δ Mo . . . . . .Molybdenum
- Δ mon . . . . . Monazite
- Δ ne. . . . . Nephelite (nepheline)
- Δ nc. . . . . .Niccolite
- Δ Ni. . . . . Nickel
- Δ Nb . . . . . .Niobium
- Δ Pd . . . . . .Palladium
- Δ peat . . . . . .Peat
- Δ pent . . . . . .Pentlandite
- Δ Pt. . . . . .Platinum
- Δ py . . . . . .Pyrite
- Δ pyl . . . . . Pyrochlore
- Δ pyrl . . . . . .Pyrolusite
- Δ po . . . . . .Pyrrhotite
- Δ q . . . . . Quartz
- Δ qcv. . . . .Quartz carbonate vein
- Δ ra. . . . . .Radioactive minerals
- Δ RE . . . . . .Rare Earths
- Δ sd. . . . . Sand
- Δ sgl . . . . . Sand and gravel
- Δ ss . . . . . .Sandstone
- Δ scap . . . . . Scapolite
- Δ shee . . . . . .Scheelite
- Δ serp . . . . . Serpentine
- Δ sh. . . . . Shale
- Δ sid . . . . . Siderite
- Δ si . . . . . Silica
- Δ Ag . . . . . .Silver
- Δ sl . . . . . Slate
- Δ sm . . . . . .Smaltite
- Δ sod. . . . . Sodalite
- Δ spec . . . . . Specularite
- Δ sp. . . . . .Sphalerite
- Δ spd. . . . . .Spodumene
- Δ staur. . . . . .Staurolite
- Δ stib. . . . . Stibnite
- Δ st . . . . . .Stone
- Δ talc. . . . . .Talc
- Δ Te . . . . . .Tellurium
- Δ td. . . . . Tetrahedrite
- Δ th. . . . . .Thorite
- Δ Th . . . . . .Thorium
- Δ thuc . . . . . Thucholite
- Δ ti . . . . . Titanite
- ▲ Ti. . . . . Titanium
- Δ tour . . . . . .Tourmaline
- Δ trap . . . . . .Trap rock
- Δ W. . . . . Tungsten
- Δ uran . . . . . Uraninite
- Δ U . . . . . .Uranium
- Δ verm . . . . . .Vermiculite
- Δ Y . . . . . Yttrium
- Δ Zn . . . . . .Zinc
- Δ zr. . . . . Zircon
- ▲ V . . . . . .Vanadium

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps or maps listed in Drillhole Summary

ANGUS TOWNSHIP

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
A.	O'Connor, D., Prospect	Fe-major Ti,V-minor	N-0078	MRC 11, p.264	ODM, 1931, AR 40, pt.4, p.105-110 GSC, 1965, Map 1480G, Ottertail Creek ODM, 1967, Map P.394, Tomiko OGS, 1971, Map P.679, Tomiko Area (East Half) Assays included in MDIR

GDIF FORM NO.

4 ANGUS TOWNSHIP

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE COBALT COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
1	Titan Iron Mines Ltd. AFRO #63.2147 Lake Ontario Steel Co. Ltd. option	68				68			66-67			68								
2	O'Connor, D. (AR40, pt.4) Leitch Gold Mines Ltd. 1942 - 8 claims-probably O'Connor property					31														

GDIF FORM NO. 2

ANGUS TOWNSHIP

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
	No data available as of Sept. 22, 1987								

GDIF FORM NO. 3

AIRBORNE GEOPHYSICAL SURVEY DATA

No.	By / For	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing
1.	E.G. Courage, Lockwood Survey Corp., Ltd. for: Titan Iron Mines Dec. 1966-Jan. 1967 AFRO #63.2147	Magnetic	500'	E/W	660'

GULF FORM NO. 4

ANGUS TOWNSHIP

Map Sample Site Reference Number	GEOCHEMICAL SURVEY DATA		By	Reference
	Type of Survey	Analysis For		
	No data available as of Sept. 22, 1987			

GDIF FORM NO. 5

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result
	No data available as of		September 22, 1987	

LANDSAT COLOUR PHOTO - NTS 31M

LS	TR	FR	Date of Imagery	Band	Cycle/Day
2	20	27	13/10/81	C_1	136/10

on file in Cobalt Office

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office, Cobalt.

No data available as of Sept. 22, 1987

ANGUS TOWNSHIP

GDIF FORM NO. 7

ODM GENERAL INDEX SEARCH

Words searched: Angus Twp.
Frankish Lake
Greenwood Lake
Muskeg Lake
O'Connor, D. Prospect
Ottertail Creek
Titan Iron Mines Ltd.

Index Volume	Listing:	Report Volume	Part	Page
3	Angus Twp., Nipissing			
	Titaniferous magnetite, report on by M.E. Hurst	40	4	105-110
	O'Connor, D.			
	Iron claims, Angus twp., report on	40	4	105-110
4	Angus Twp., Nipissing			
	Leitch gold claims	52	1	136
8	Angus Twp., Nipissing District			
	iron	MRC 11		264
	O'Connor Prospect			
	Angus Twp., Nipissing District			
	mining property, report on	MRC 11		264

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page

GDIF FORM NO. 8

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		REGIONAL GEOLOGICAL COMPILATION MAPS		
Ayers, L.D., Lumbers, S.B., Milne, V.G., Robeson, D.W.	1971	Ontario Geological Map, East Central Sheet	ODMNA Map 2198	1: 1 013 760
Card, K.D. et al	1971	Sudbury-Cobalt Sheet, Geological Compilation Series, Algoma, Manitoulin, Nipissing, Parry Sound, Sudbury and Timiskaming District, Ontario	ODMNA Map 2188	1: 253 440
Card, K.D., Lumbers, S.B.	1977	Sudbury-Cobalt, NTS 31L/W, 31M/SW, 41I, 41P/S, Sudbury and AL5 Districts	OGS Map 2361	1: 253 440
Lumbers, S.B., Milne, V.G.	1979	Ontario Geological Map, East Central Sheet, NTS 31/NW, 32/W, 41/N, 42	OGS Map 2393	1: 1 013 760
Easton, R.M.	1986	Geochronology Compilation Map for Ontario: Sheet 1: Southern Ontario; Grenville Province and Environs, Ar-Ar and K-Ar Isotope Systems	OGS Map P.2840	1: 1 013 760
Easton, R.M.	1986	Geochronology Compilation Map for Ontario: Sheet 2: Southern Ontario; Grenville Province and Environs, Rb-Sr, Nd, Sm, U-Pb and other Isotopic Systems	OGS Map P.2841	1: 1 013 760
Easton, R.M.	1986	Geochronology Compilation Map for Ontario: Sheet 3: East Central Ontario, All Isotopic Systems	OGS Map P.2842	1: 1 013 760
		GEOPHYSICAL MAPS		
	1957	Ottertail Creek, Ontario-Quebec	GSC Map 508G	1: 63 360
	1965	Ottertail Creek, Ontario-Quebec, NTS 31L/14	GSC Map 1480G	1: 63 360

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		GEOPHYSICAL MAPS		
GSC-OGS	1978	Airborne Gamma-Ray Spectrometry Maps and Profiles	OGS Map Set 1649-1687	1: 250 000
Gupta, K.V., Wadge, D.R.	1980	Bouger Gravity and Generalized Geological Map, North Bay-Marten River Area, NTS 31L/W, 41I/E, Districts of Nipissing and Sudbury, Ontario	OGS Map 2297	1: 100 000
Gupta, V.K., Grant, F.S., Boud, A.	1981	A Gravity Study in North-Central Ontario, Districts of Sudbury, Nipissing and Temiskaming; in Summary of Field Work, 1981, edited by J. Wood et al, Ontario Geological Survey	OGS MP 100	No.26 pp.160-164
Gupta, V.K.	1982	Gravity and Aeromagnetic Studies in North-Central Ontario: A Progress Report; in Summary of Field Work, 1982, edited by J. Wood et al, Ontario Geological Survey	OGS MP 106	No.24 pp.165-167
GSC	1984	Sudbury, Ontario and Quebec, IMW NL16/17, Magnetic Anomaly Map	GSC Map NL16/17-M	1: 1 000 000
Gupta, V.K.	1985	Cobalt Embayment Interpretation: Depth to Basement and Distribution of Nipissing Diabase from Aeromagnetics; in Summary of Field Work and other Activities, 1985, edited by John Wood, Owen L. White, R.B Barlow and A.C. Colvine, Ontario Geological Survey	OGS MP 126	p.178-181
		Geophysical Map	GSC Map 7066G	1: 253 440
		Earth Physics Branch Gravity Map Series	EPB Maps No.84 and No.134	1: 50 000

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		SURFICIAL, PLEISTOCENE, TERRAIN ENGINEERING		
	1951	Ottertail Creek, Ontario-Quebec topographic	NTS 31L/14 NTS 31L/14E NTS 31L/14W	1: 50 000
	1978	North Bay, topographic	NTS 31/L	1: 250 000
Vincent, J-S, Hardy, L.	1979	The Evolution of Glacial Lakes Barlow and Ojibway, Quebec and Ontario	GSC Bulletin 316	
Gartner, J.F.	1980	Tomiko Area, NTS 31L/NW, Nipissing District, Ontario	NOEGTS 96 OGS Map 5040	1: 100 000
	1982	Ontario Basic Maps	MNR Maps 20 17 6100 51800 20 17 6100 51900 20 17 6200 51800 20 17 6200 51900	1: 20 000
		Angus Township Claim Map	MNR Map M-403	1"=40 chains
		Tomiko, topographic	NTS 31L/NW	1: 126 720
		MINERAL POTENTIAL		
Springer, J.S.	1978	Ontario Mineral Potential, Parts of North Bay, Deep River and Ville Marie, NTS 31K,L,M, Renfrew County and 2 Districts, Ontario	OGS Map P.1510	1: 250 000
Vos, M.A., Smith, B.A., Stevenato, R.S.	1981	Industrial Minerals of the Sudbury Area, NTS 31/E, 31L, 41H, 41I, Sudbury, Nipissing, Parry Sound, and Manitoulin Districts	OGS OFR 5329	

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		MINERAL POTENTIAL		
Springer, J.S., Robertson, J.A., Vos, M.A.	1982	Mineral Potential Map of Ontario, East Central Sheet, NTS 31/NW, 32/W, 41/N, 42	OGS OFR 5327	
Yundt, S.E. et al	1982	Industrial Minerals of Ontario	OGS Map P.2591	1: 1 500 000
		GEOCHEMICAL		
		No data available as of Sept. 22, 1987		
		GEOLOGICAL REPORTS AND MAPS		
Bell, R.	1892	The Laurentian and Huronian Systems North of Lake Huron	*OBM AR 1891 Vol.1	pp.63-94
Bell, R.	1892	Map of Parts of Districts of Nipissing and Algoma Exhibiting the Country around Sudbury and Eastward to Ottawa River	*OBM Map 1a	1: 253 440
Barlow, A.E.	1899	Report on the Geology and Natural Resources of the Area Included by the Nipissing and Timiskaming Map Sheets, Comprising Portions of the District of Nipissing, Ontario and the County of Pontiac, Quebec	*GSC Annual Report X,pt.I *GSC Maps 599 and 606	
Barlow, A.E.	1908	Second Edition of a Report on the Geology and Natural Resources of the Area Included by the Nipissing and Timiskaming Map Sheets	*GSC Separate Report 962 *GSC Map 944	

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		GEOLOGICAL REPORTS AND MAPS		
Hurst, M.E.	1931	A Deposit of Titaniferous Magnetite in Angus Township, Nipissing District, Ontario	ODM AR, Volume 40, pt.4	pp.105-110
Roscoe, S.M.	1957	Geology and uranium deposits, Quirke Lake-Elliot Lake-Blind River Area, Ontario (Preliminary Report)	GSC Paper 56-1	
Lumbers, S.B.	1967	Tomiko Sheet, District of Nipissing, Ontario	ODM Map P.394	1: 126 720
Owens, D.	1968	Mineralogical Investigation of a Titaniferous Iron Ore from Titan Iron Mines Limited, Northern Ontario	E.M.R. Mines Branch Investigation Report IR 68-46	11p.
Lumbers, S.B.	1971	Tomiko Area, East Half, Nipissing District, Ontario	ODMNA Map P.679	1: 63 360
		JOURNAL ARTICLES, THESES, TECHNICAL REPORTS		
		No data available as of Sept. 22, 1987		
		* Out of Print		

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages

GDIF FORM NO. 9

NOTES AND ADDENDA

The exploration data map shows only the most important minerals found at each site. All the minerals noted are listed in the mineral occurrences or drill hole data.

On the maps, only areas for which work has been submitted to the Ministry are shown and thus a company may hold, or have held in the past, more ground then is shown.

No present or past producers.

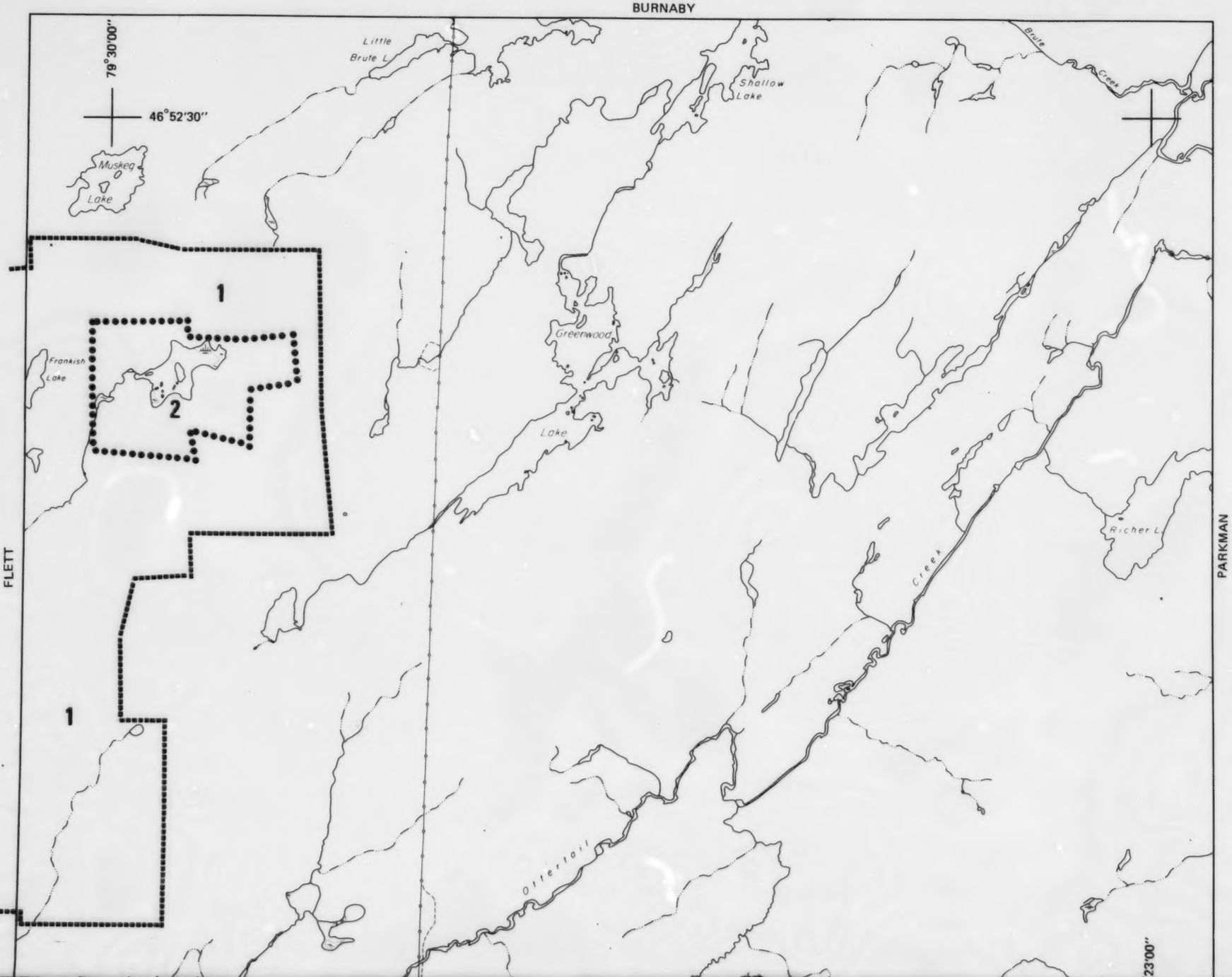
The township was closed to staking in 1978 due to the Bear Island Indian Caution.

AIR PHOTOS - On File in Toronto

Only 1977 photos are available for viewing at the Public Service Centre, Rm.1640, Whitney Block.

Photos can also be ordered from here for the years 1946, 1958 and 1970.

Year	Roll	Strip	Photo
1946	39	138	23-31
	217	139	2-8
	217	140	27-36
	38	140	30-36
	38	141	105
	217	142	7B-10B
	37	142	92-99
1958	057	4636	63-69
	054	4635	9-15
	054	4634	27-33
	058	4633	16-22
1970	49	4636	144-151
	49	4635	204-211
	38	4634	205-212
	38	4633	150-155
1977	18	4636	81-88
	78	4635	93-99
	20	4634	24-30
	20	4633	45-52



Ontario Ministry of Northern Development and Mines

Sean Conway, Minister of Mines

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 446

(Map 1 of 2)

ANGUS TOWNSHIP

DISTRICT OF NIPISSING

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1

BURNABY

79°30'00"

46°52'30"

Little Brute L.

Shallow Lake

Brute Creek

Muskeg Lake

Greenwood

Lake

Frankish Lake

Richer L.

Creek

Otterrail

PARKMAN

1

2

1

23'00"

Ministry of Northern Development and Mines

Ontario

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ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 446

(Map 1 of 2)

ANGUS TOWNSHIP

DISTRICT OF NIPISSING

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

(Map 1 of 2)

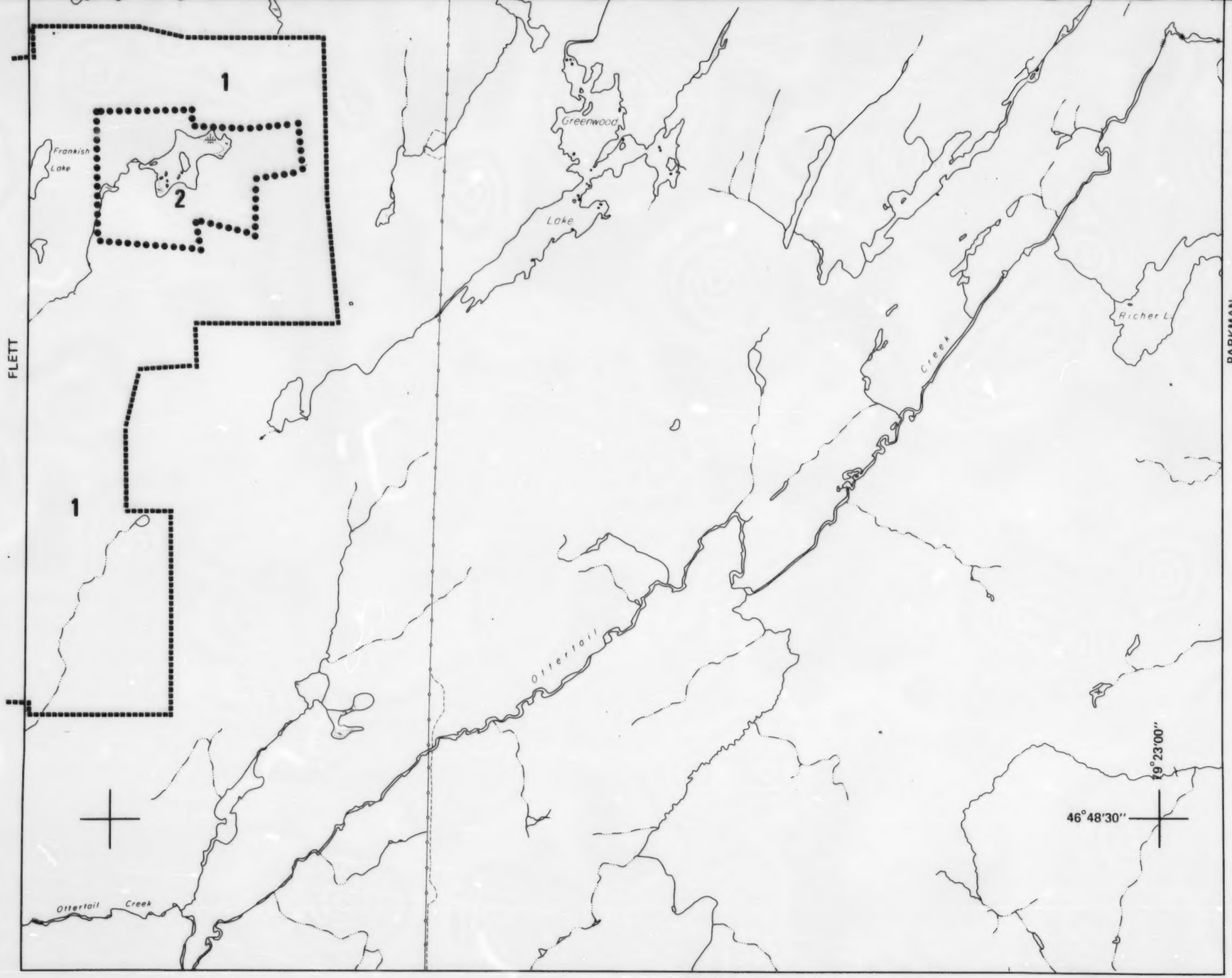
ANGUS TOWNSHIP

DISTRICT OF NIPISSING

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile



EXPLORATION DATA FILE AREAS

- Reference number is always inside work area outline. See listing in text pages.
- Small area of exploration
- File covers whole township or area

(Map 1 of 2)

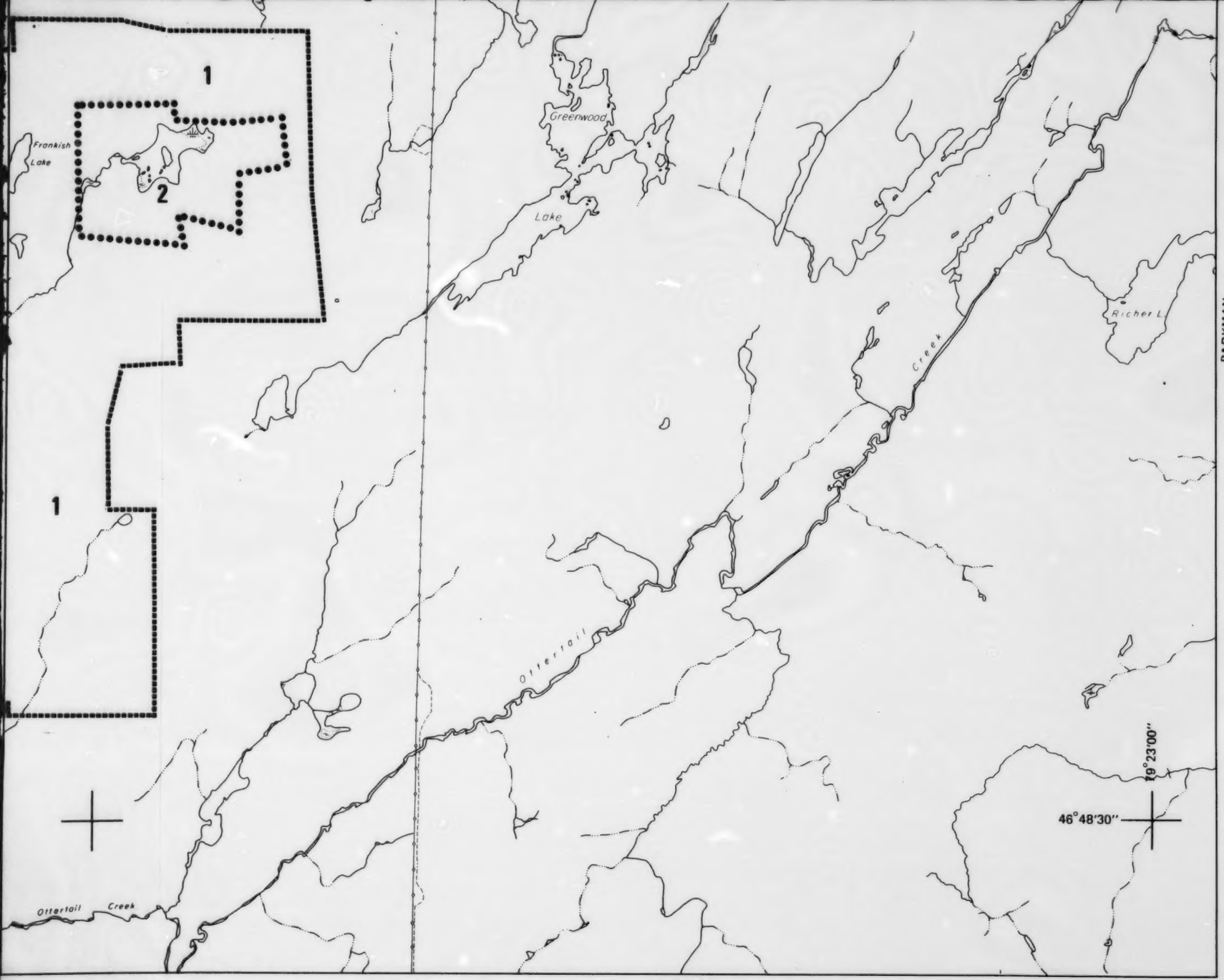
ANGUS TOWNSHIP

DISTRICT OF NIPISSING

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile



PARKMAN

LaSALLE

EXPLORATION DATA FILE AREAS

■ 1 6 Reference number is always inside work area outlined. See listing in text pages.

□ x 4 Small area of exploration

□ ★ File covers whole township or area

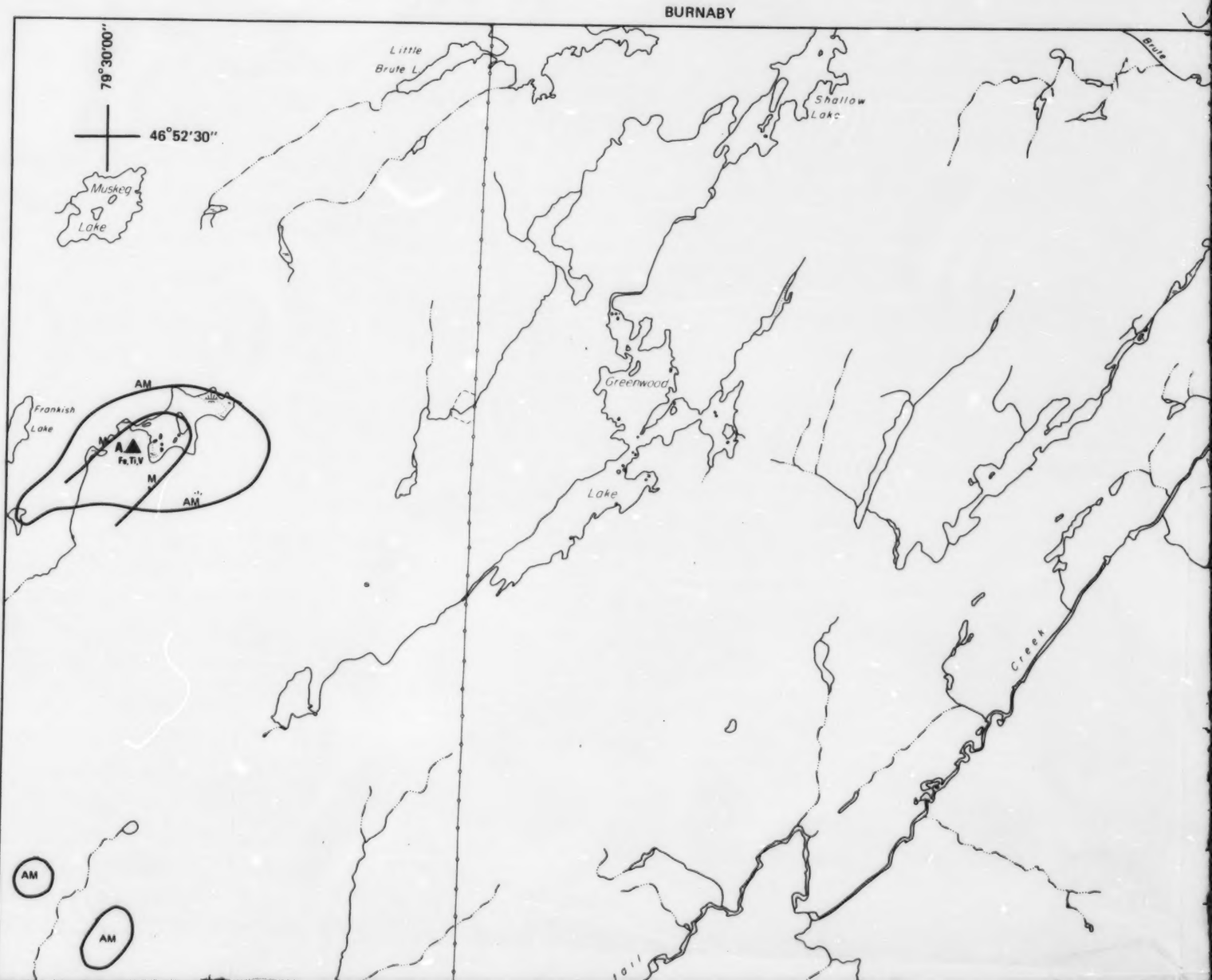
TYPES OF DATA SHOWN ON THIS MAP

GEOCHEMICAL AND GEOCHRONOLOGICAL DATA

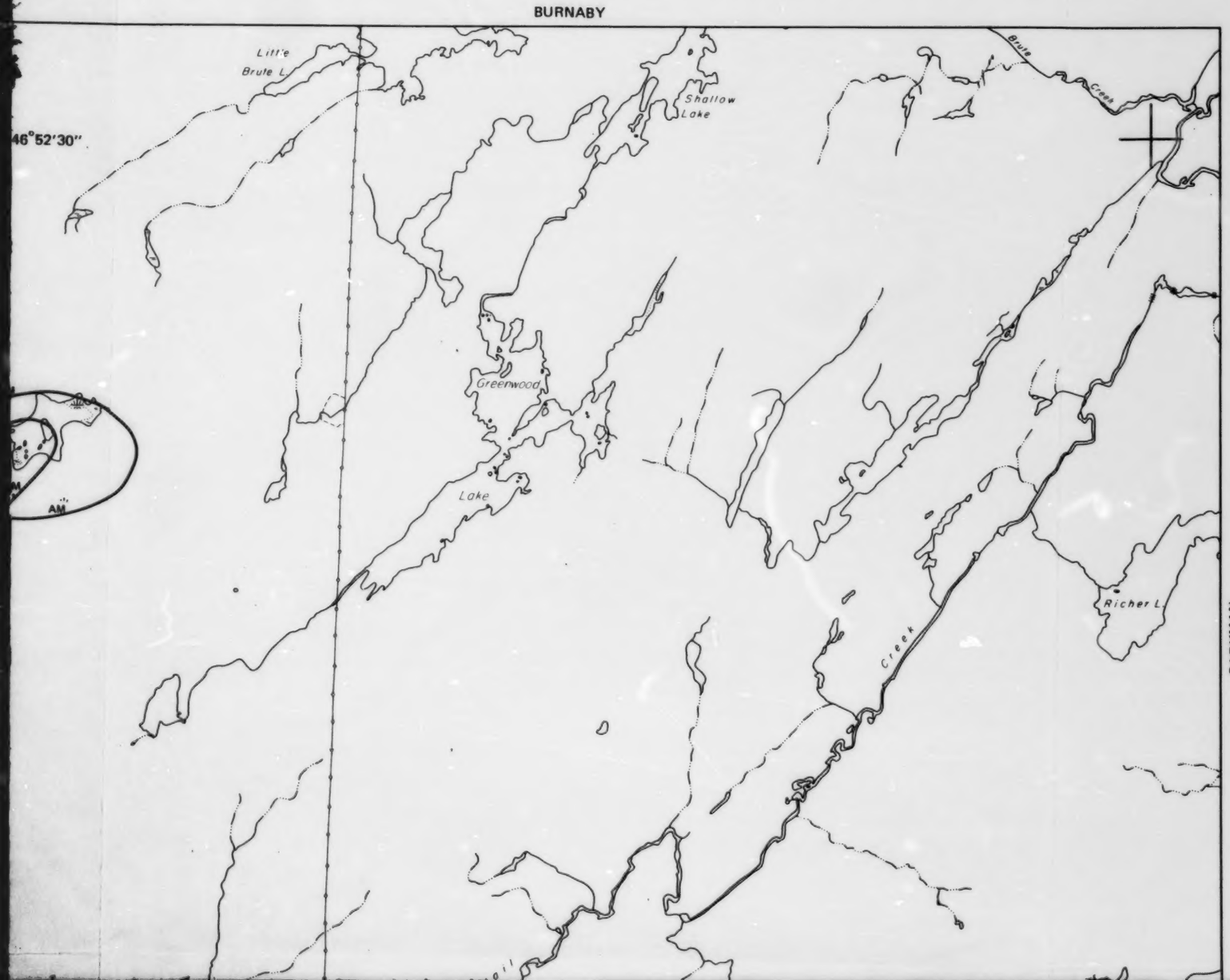
- ☐ ◆³ Geochemical sample site, with reference number
- ☐ ◆³ Area of geochemical sampling, with reference number
- ☐ ✳² Age dating material sampling site, with reference number

GEOPHYSICAL ANOMALIES

- ■ —AM— Airborne magnetic anomaly
- ☐ Airborne electromagnetic anomaly Length of anomaly along flight line
- ☐ Airborne electromagnetic anomaly Location of anomaly along flight line
- ☐ Airborne electromagnetic anomaly Conductor axis: definite, probable, possible
- ☐ —ARA— Airborne radiometric anomaly
- ■ —M— Ground magnetic anomaly
- ☐ —VL— Ground electromagnetic anomaly (VL - Vertical loop; HL - Horizontal loop VLF - Very low freq.; Turam; JEM - Crone Em - 16)
- ☐ —RA— Ground radiometric anomaly
- ☐ —IP— Induced polarization anomaly
- ☐ —SP— Self potential anomaly
- ☐ —AFMAG— Audio-frequency magnetic anomaly (total intensity)
- ☐ —R— Resistivity anomaly
- ☐ —GR— Gravity anomaly



BURNABY



PARKMAN

Ministry of Northern Development and Mines

Ontario

Sean Conway, Minister of Mines

ONTARIO GEOLOGICAL SURVEY

EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 446

(Map 2 of 2)

ANGUS TOWNSHIP

DISTRICT OF NIPISSING

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- cp A. — Mineral occurrence at surface, with reference letter
- Au A. 84' — Mineral occurrence with shaft, depth given with reference letter
- Ag A. — Mineral occurrence reported but exact location uncertain, with reference letter
- cp A. — Mineralized float with reference letter
- A. — Mineral occurrence in drillhole, with reference letter, and drillhole number

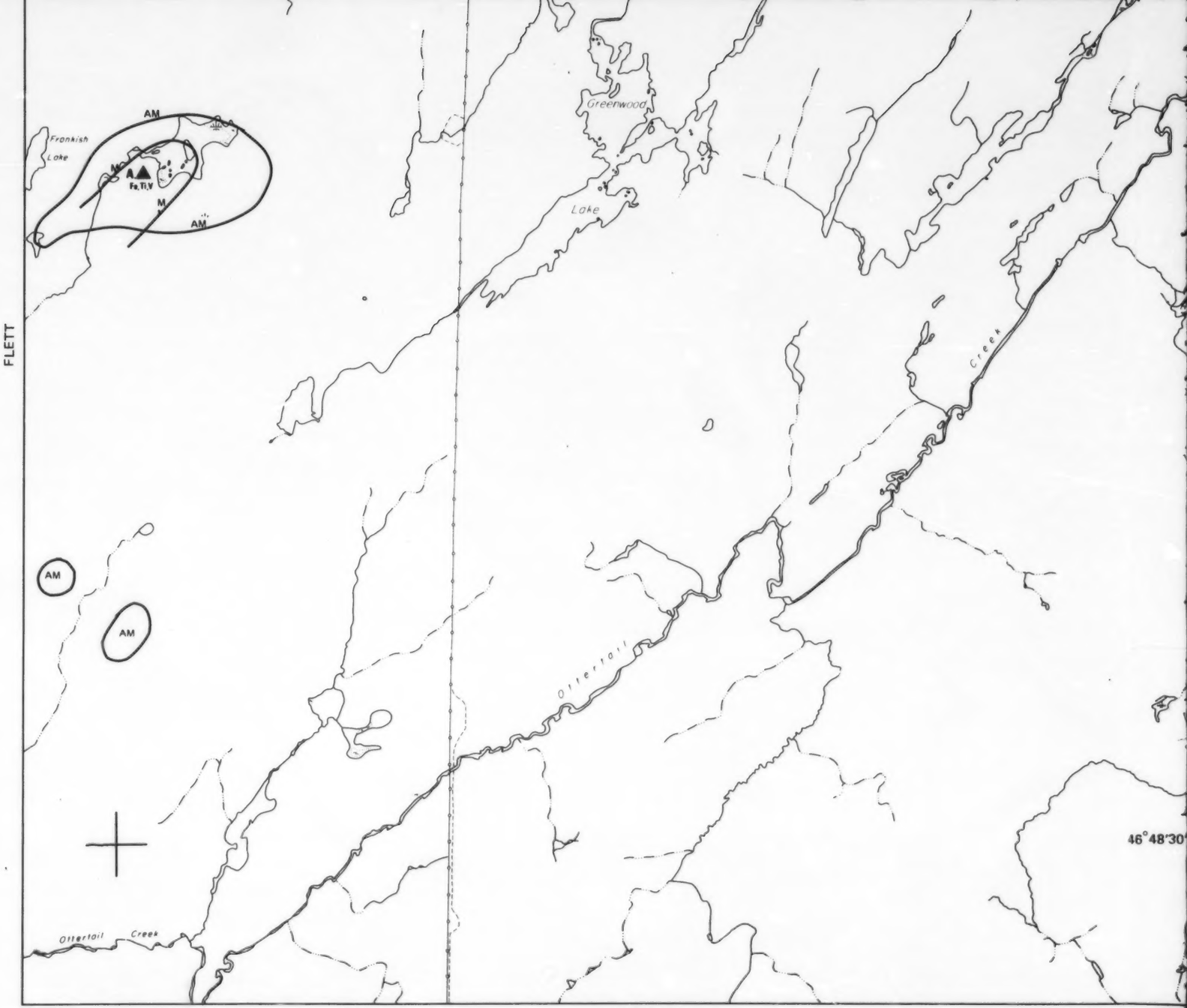
GEOPHYSICAL ANOMALIES

- ■ AM — Airborne magnetic anomaly
- □ — Airborne electromagnetic anomaly
  Length of anomaly along flight line
- □ — Airborne electromagnetic anomaly
  Location of anomaly along flight line
- □ — Airborne electromagnetic anomaly
  Conductor axis: definite, probable, possible
- □ ARA — Airborne radiometric anomaly
- ■ M — Ground magnetic anomaly
- □ VL — Ground electromagnetic anomaly
  (VL - Vertical loop; HL - Horizontal loop
  VLF - Very low freq.; Turam; JEM -
  Crone Em - 16)
- □ RA — Ground radiometric anomaly
- □ IP — Induced polarization anomaly
- □ SP — Self potential anomaly
- □ AFMAG — Audio-frequency magnetic anomaly
  (total intensity)
- □ R — Resistivity anomaly
- □ GR — Gravity anomaly

MISCELLANEOUS DATA

- □ Trenching, pit
- □ Adit
- □ Open pit
- □ Rock quarry
- □ Sand and/or gravel pit

NOTE: Consult the text that accompanies this map for pertinent lists of data, references, and abbreviations.



PARKMAN

ANGUS TOWNSHIP

DISTRICT OF NIPISSING

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

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- □ cp A. — Mineralized float with reference letter
- □ A. — Mineral occurrence in drillhole, with reference letter, and drillhole number

DRILLHOLES

- □ ●² — Location of single drillhole, with reference number
- □ ◉² — Location of closely spaced group of drillholes, with reference number
- □ ?² — Drillhole, exact location uncertain, with reference number
- □ — Property with underground drillholes in this general area, with reference number
- □ ○² — Property with drillholes which have not been plotted on map, with reference number
- □ ⊕² — Reverse circulation drillhole; churn drilling, with reference number